		REV	DATE		REVISION RECORD		DWN	AUTH
INPUT	Connectors	-	04-12-12	Initial Release			PAC	
Frequency	RF Input/Output: SMA(f)							
10 MHz	Power, Monitoring: Feed Thru Terminals		-	-				
Level	GND: Ground Turret							
+13 dBm ±1 dB into 50 ohms	Packaging							
OUTPUT	Nickel-plated machined			J3PI	M MXO Connectio	ons		
Frequency	aluminum housing – J3PM			Connector	Function			
4 GHz	Mounting			1	Supply Voltage			
Level	Threaded inserts on base,			2 4	Ground, Case			
+13 dBm ±2 dB into 50 ohms	6 places, #2-56			5	RF Output Phase Lock Volt	age		
STABILITY	POWER REQUIREMENTS			6	Phase Lock Alar External Referen			
Aging (free-running)	Warm-Up Power							
1×10^{-6} first year	≤ 18 Watts for 5 minutes							
after 30 days operating, typical	Total Power	1.00 —	600 K				<u> </u>	9
5×10^{-7} second year, typical	≤ 14.5 Watts at +25°C			$\begin{array}{ccc} \bigcirc \bigcirc & 1 \bigcirc \\ 5 & 6 \end{array}$			Ç	6
	Supply Voltage	0.44 —		2 ©			4	
3×10^{-7} per year thereafter, typical	+15 VDC ±5%	0	_					_
Phase Noise L(f), typical, (free-running)	ADJUSTMENT	Ĭ						
100 Hz -96 dBc/Hz	Loop BW	0	0.55	1.33 1.64 2.40			5.76	6.31
1 KHz -123 dBc/Hz	Target Bandwidth: ~200 Hz]
10 KHz -140 dBc/Hz	Type 2 Loop	4.00		цщ д				
100 KHz -141 dBc/Hz	CRYSTAL	3.915 - 9						Ž
Temperature Stability	Туре							
±5 x 10 ⁻⁷ free-running from 0 to +50°C	100 MHz SC-cut (x40)							
(Ref. +25°C)	OTHER							
Harmonics	Label							
-25 dBc	Use conventional label with the							
Sub-Harmonics	following information:	2.000 — 🔿						0
-60 dBc	501-25764 (Current Rev.)	2.000 - 0						
PLL Reference Products	4 GHz MXO-PLM							
-60 dBc	+15 VDC							
Spurious	Serial # - Date Code							
-80 dBc, excluding power	(Mark connectors with function)							
supply line related spurs	Test Data		Threaded I 6 places, 0	Inserts, #2-56, .190" deep				
Phase Lock Alarm	- Output Level	0.085 ¬		·				
TTL	- Phase Noise – free-running		\					
Locked: +3.5 VDC to +5.2 VDC (Hi)	- Harmonics, Subs, Products, Spurious	0 4	3					
Out-of-Lock: +0.8 VDC max (Lo)	- Power – Warm-up and Total	0	i.					6.225 6.31
Phase Lock Voltage Monitor		-						
Voltage monitor pin supplied		Wenzel Associates, Inc.						
MECHANICAL		Austin, Texas						
Dimensions		4 GHz Multiplied Crystal Oscillator (MXO-PLM)						
6.31 x 4 x 1"		4	GHz Mu	Itiplied Cr	ystal Osc	illator (M	XO-PL	_M)
		P/N:		Rev: Dat	e:	Drawn:	Ref:	
		50	1-25764	- 0	4-12-12			
		Tolerance		0.XX Dec:	0.XXX Dec:	FSCM:		
		(except as Dimension	noted) is are in inches	±0.030"	±0.010"	62821	Page 1 c	of 2
				_0.000		_		